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(54) STATIC MIXING APPARATUS

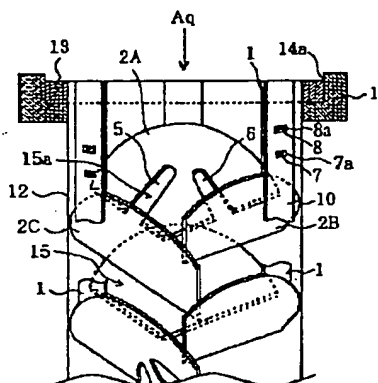
(57) Abstract:

PROBLEM TO BE SOLVED: To eliminate the hooking with impurities and the anxiety of coloring matter staining and to reduce pressure loss by forming a fluid passage to inclined plates and closing a fluid short-circuit passage by the overlap of the projection surfaces of the inclined plates.

SOLUTION: The fluid Aq flowing into a housing 12 comes into contact with a first inclined plate 2A to flow down along the surface thereof and a part thereof flows downwardly from the passage 15a formed by notch grooves 5, 6. Subsequently, the fluid comes into contact with an inclined plate 2B to flow downwardly along the surface thereof, and this operation is successively repeated. As a result, even if the fluid generates short-pass temporarily, it is uniformly stirred and mixed within the housing as a whole. Since vortex streams are formed because the involution of the fluid is generated in the gap between the inclined plates, when the fluid flows from the inclined plate to the other inclined plate, stirring and mixing efficiency is also good. Further, since the inclined plates and the notch grooves 5, 6 are not mutually opposed in the inflow direction of the fluid and the thickness

themselves of the inclined plates are not opposed, impurities are not caught.

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